nternational application No.
PCT/JP03/14690

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> B22D17/10, B22D17/28, B22D17/30						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELD	S SEARCHED					
Minimum d Int.	ocumentation searched (classification system followed C1 <sup>7</sup> B22D17/00, B22D17/08, B22	l by classification symbols) D17/10, B22D17/28, B22D1	17/30			
Jits	tion searched other than minimum documentation to the theorem to the third searched other than minimum documentation to the third searched other than the searched other	Toroku Jitsuvo Shinan Koho	1994-2002			
Electronic d	lata base consulted during the international search (nar	ne of data base and, where practicable, sear	rch terms used)			
C. DOCU	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a		Relevant to claim No.			
XA	Microfilm of the specification to the request of Japanese Ut. No. 93752/1971 (Laid-open No. (Ishikawajima-Harima Heavy I. 28 June, 1973 (28.06.73), Figs. 1 to 3; pages 3 to 9 (Family: none)	ility Model Application 49211/1973)	2-6			
А	JP 60-9563 A (Hanano Corp.), 18 January, 1985 (18.01.85), Figs. 1 to 2; pages 2 to 3 (Family: none)		1-6			
P,A	US 2003/0000676 A1 (Tetsuich 02 January, 2003 (02.01.03), Figs. 1, 2; Par. Nos. [0015] & JP 2003-19552 A		1-6			
<u> </u>	er documents are listed in the continuation of Box C.	See patent family annex.				
Special categories of cited documents:  "A"  Special categories of cited documents:  "A"  Special categories of cited documents:  "A"  Considered to be of particular relevance  "E"  earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y"  document published prior to the international filing date but later than the priority date claimed  Date of the actual completion of the international search  03 March, 2004 (03.03.04)  Idea of cument published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot document of particular relevance; the claimed invention cannot considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family  Date of the actual completion of the international search  03 March, 2004 (03.03.04)  Date of mailing of the international search report  16 March, 2004 (16.03.04)		e application but cited to rrlying the invention laimed invention cannot be ed to involve an inventive laimed invention cannot be when the document is documents, such skilled in the art aamily				
Japa	ailing address of the ISA/ nese Patent Office	Authorized officer				
Facsimile No	١.	Telephone No.				



hternational application No.
PCT/JP03/14690

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
E, A	JP 2004-50269 A (Kabushiki Kaisha Sodikku Purasutekku), 19 February, 2004 (19.02.04), Figs. 1 to 8; Par. Nos. [0017] to [0072] (Family: none)		1-6
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日本国特許庁(ISA/JP) 郵便番号100-8915

C(続き)	関連すると認められる文献	
引用文献の カテゴリー*		関連する 請求の範囲の番号
P, A	US 2003/0000676 A1(Tetsuichi MOTEGI), 2003.01.02, 第1,2図,第0015-0031欄 & JP 2003-19552 A	1-6
Е, А	JP 2004-50269 A(株式会社ソディックプラステック), 2004.02.19, 第1-8図, 第0017-0072欄(ファミリーなし)	1-6